

100

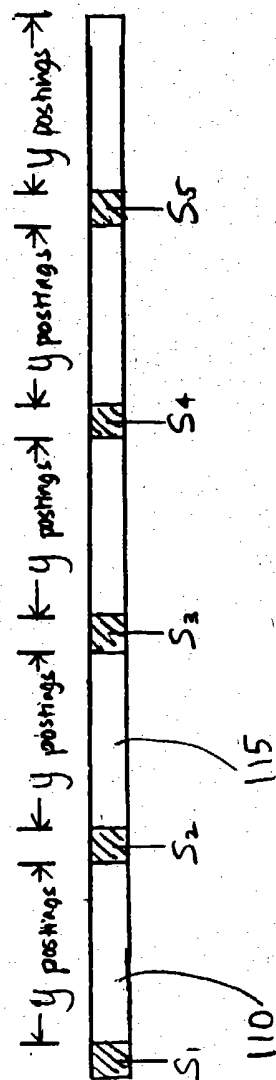


FIG. 1

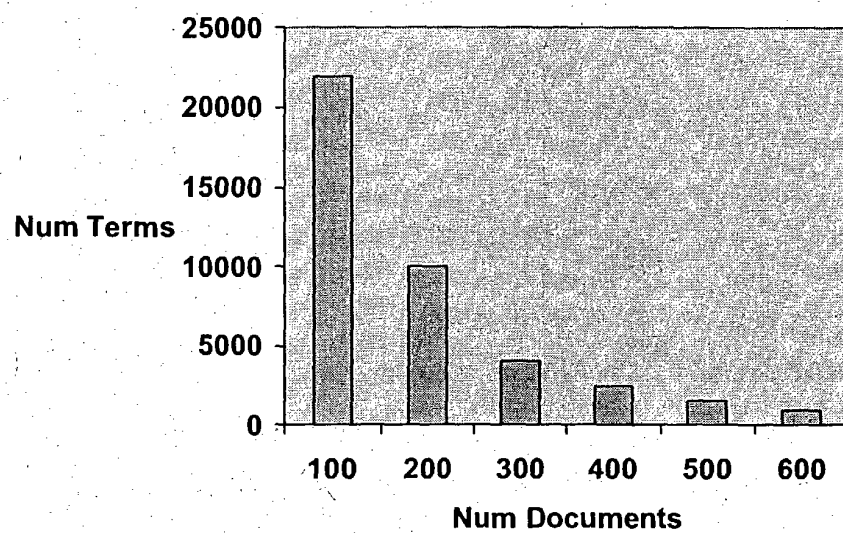
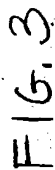


FIG. 2



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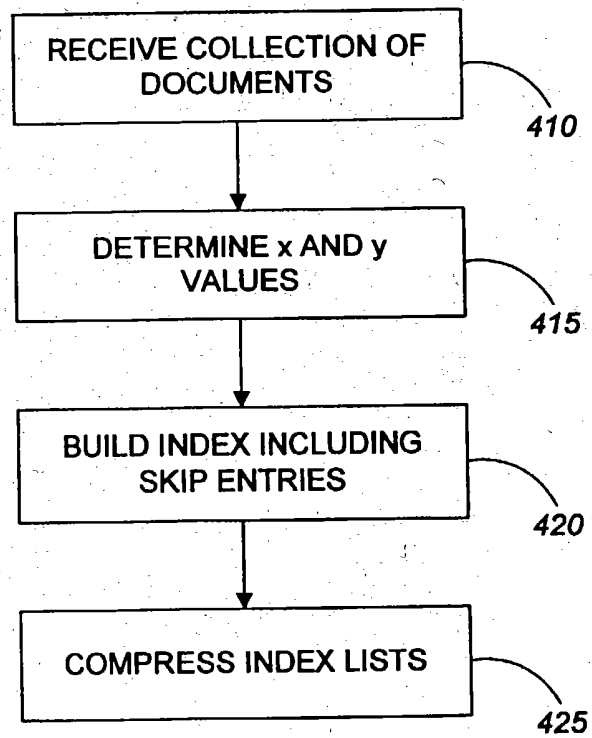


FIG. 4

500

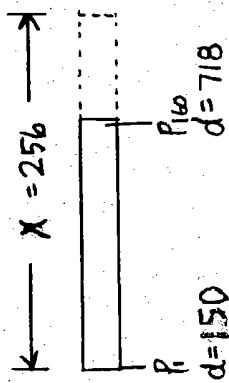
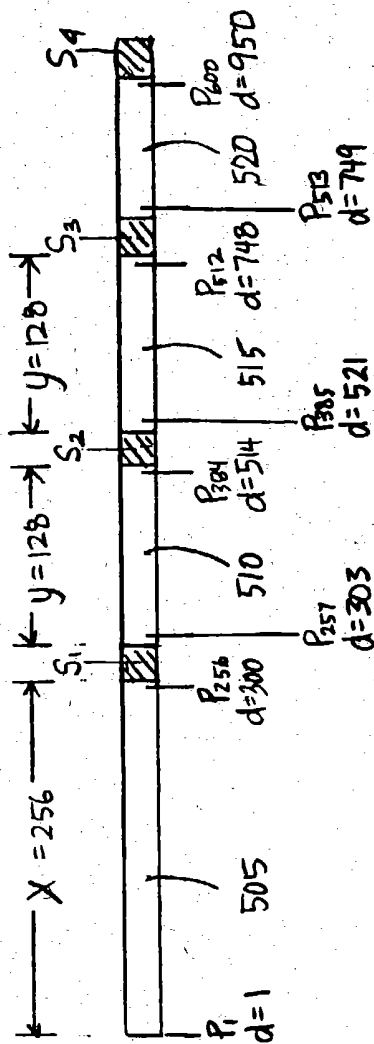


FIG 5A

502



Inverted List for OPTICIAN $\langle d, f, [o_1, \dots, o_d] \rangle$ — 500

$\underbrace{\langle 150, 1, [16] \rangle \langle 381, 2, [8, 17] \rangle \langle 523, 1, [17] \rangle \dots \langle 718, 3, [4, 9, 15] \rangle}_{P_{160}}$

FIG. 6A

Preliminary Results

$(150, 381, 523, \dots, 723)$

$(d_{pr1}, \dots, d_{pr160})$

d_{pr1} d_{pr2} d_{pr3} d_{pr160}

FIG. 6B

502

Inverted List for CALIFORNIA $\langle d, f, [o_1, \dots, o_d] \rangle$

P_1 $\langle 1, 2, [8, 21] \rangle \dots \langle 150, 1, [6] \rangle \dots \langle 300, 1, [9] \rangle \dots \langle 303, a_2 \rangle \dots \langle 381, 1, [25] \rangle \dots \langle 514, 2, [6, 12] \rangle \dots \langle 521, a_3 \rangle \dots \langle 521, 1, [8] \rangle \dots \langle 748, 2, [10, 23] \rangle \dots \langle 749, a_4 \rangle \dots \langle 950, 2, [5, 11] \rangle \dots \langle 950 \rangle$

S_1 $\langle 303, a_2 \rangle$

S_2 $\langle 521, a_3 \rangle$

S_3 $\langle 749, a_4 \rangle$

S_4 $\langle 950 \rangle$

P_{306} $\langle 381, 1, [25] \rangle$

P_{600} $\langle 950, 2, [5, 11] \rangle$

d_{s_1}

d_{s_2}

d_{s_3}

d_{s_4}

FIG. 7

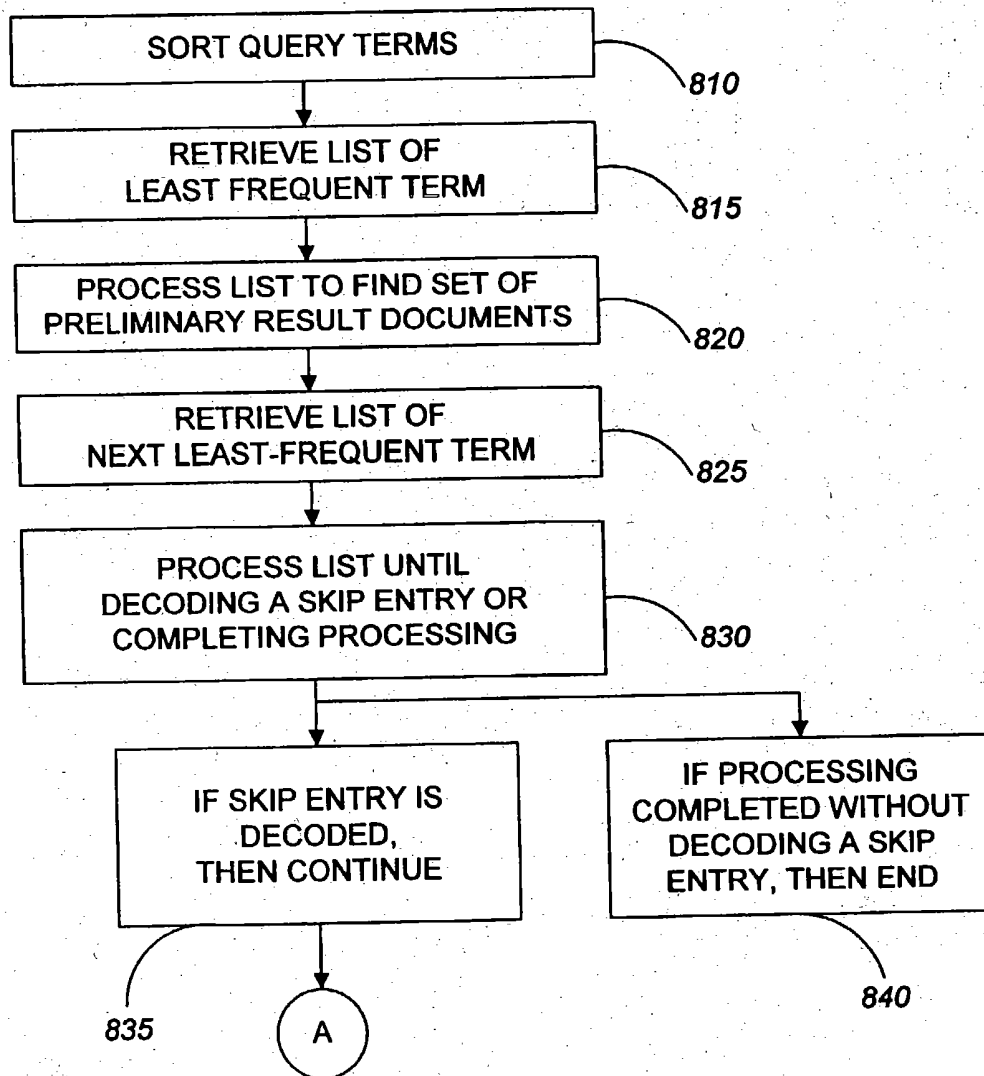


FIG. 8A

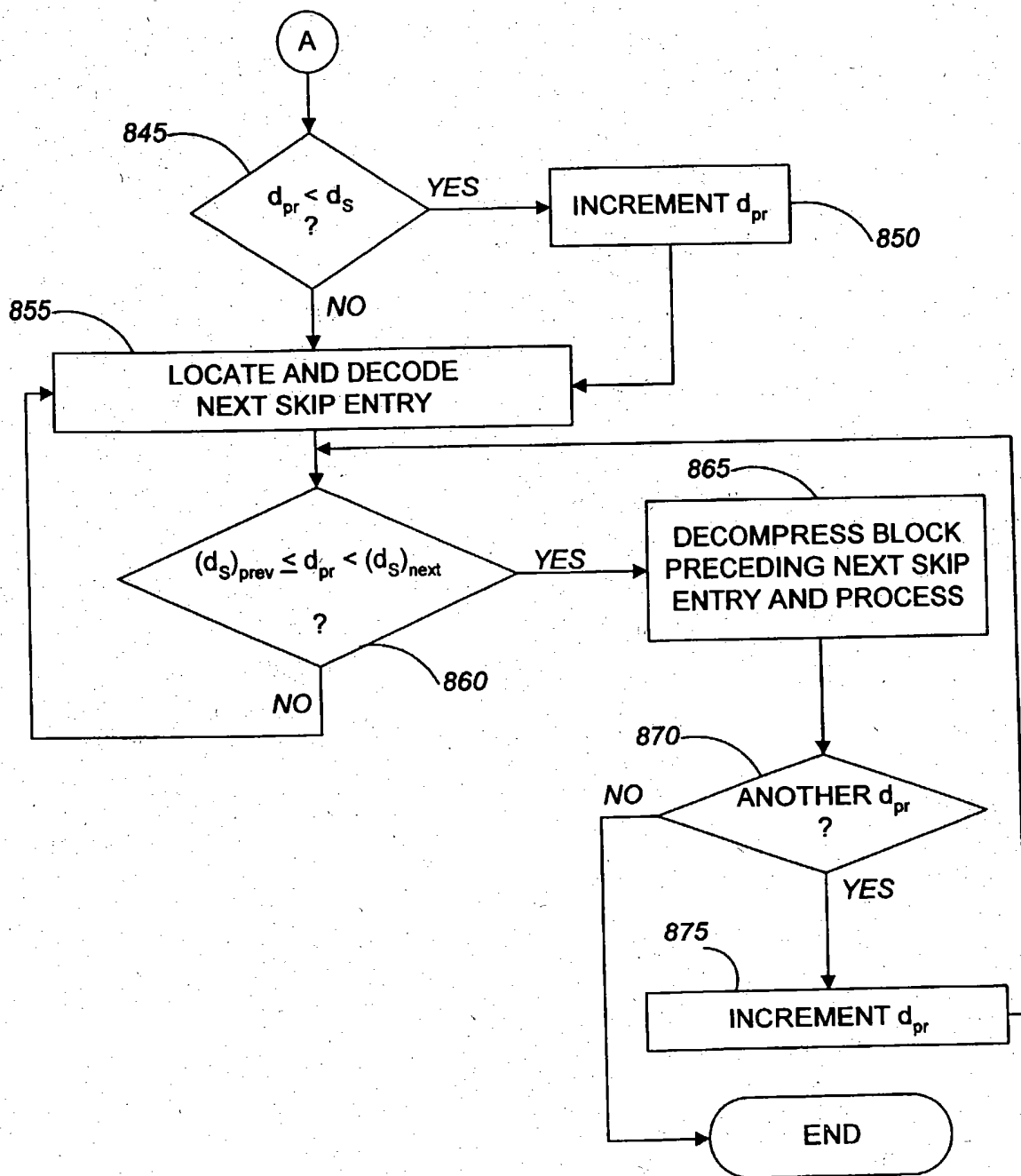


FIG. 8B